

Purchase Order Receipt Listing

Monday, October 31, 2016 8:59:10 AM

Page 1 of 2

All amounts are calculated in domestic currency.

All Vendors PO ID PO34078 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO34078	1		M303R0.750	f	11/2/2016	10/31/2016	48.0000	\$2.89	0.0000	0	\$138.84
CAD	No		303 Round Bar 0.750 f m135987	f	48.0000	PLOU01		\$138.84	0.0000	0	
	2		M6061T6B0.500X12. f 000	f	11/2/2016	10/31/2016	12.0000	\$12.42	0.0000	0	\$149.05
	No		6061-T6 Bar .500 x 12.00	f	12.0000	PLOU01		\$149.05	0.0000	0	
			m135987								
	3		M6061T6B00750X00 f .125	f	11/2/2016	10/31/2016	60.0000	\$0.80	0.0000	0	\$48.03
	No		6061-T6 Bar .750 x .125	f	60.0000	PLOU01		\$48.03	0.0000	0	
			m135987								
	4		M6061T6B1.500X01. f 250	f	11/2/2016	10/31/2016	12.0000	\$3.80	0.0000	0	\$45.59
	No		6061-T6 Bar 1.50 x 1.25	f	12.0000	PLOU01		\$45.59	0.0000	0	
			m135987								
	5		M6061T6R0.375 f 6061-T6 Round Bar .375"	f	11/2/2016	10/31/2016	12.0000	\$3.18	0.0000	0	\$38.12
	No		m135987	f	12.0000	PLOU01		\$38.12	0.0000	0	
			m135987								
	6		M6061T6R1.250 f 6061-T6 Round Bar 1.250	f	11/2/2016	10/31/2016	12.0000	\$3.18	0.0000	0	\$38.12
	No		m135987	f	12.0000	PLOU01		\$38.12	0.0000	0	
			m135987								
	7		71401-45		11/2/2016	10/31/2016	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES m135987		1.0000	PLOU01		\$0.00	0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
157.0000											
0.0000											
0.0000											
\$457.75											
0.0000											

B I L L O F L A D I N G

No: PEC 15452

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 28Oct16 at 13:14 From PFW
 Probill
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-982518- 1 Your PO # 34078
 STAINLESS STEEL ROUND BAR 303 STAINLESS
 .750" DIA X 144.0000"

Heat Number
 100D

Tag No
 584307

Quantity
 48 FT

PCS
 4

Wt LBS
 73

2) Our Order PEC-982518- 2 Your PO # 34078
 ALUMINUM FLT BAR ECONOPLT 6061-T6511
 .500" X 12.00" X 144.0000"

Heat Number
 Z00108143 0-89

Tag No
 584308

Quantity
 12 FT

PCS
 1

Wt LBS
 83

3) Our Order PEC-982518- 3 Your PO # 34078
 ALUMINUM FLAT BAR 6061-T6511
 .125" X .750" X 240.0000"

Heat Number
 423608-1

Tag No
 584309

Quantity
 60 FT

PCS
 3

Wt LBS
 7

4) Our Order PEC-982518- 4 Your PO # 34078
 ALUMINUM FLAT BAR 6061-T6511
 1.250" x 1.50" X 144.0000"

Heat Number
 201617588

Tag No
 584310

Quantity
 12 FT

PCS
 1

Wt LBS
 26

5) Our Order PEC-982518- 5 Your PO # 34078
 ALUMINUM ROUND BAR 6061-T6511
 .375" DIA X 144.0000"

Heat Number
 596952

Tag No
 584311

Quantity
 12 FT

PCS
 1

Wt LBS
 2

Page: 1Continued

MTR'S SENT

MTR'S SENT

MTR'S SENT

MTR'S SENT

MTR'S SENT

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE
 ALUMINUM • BRASS • COPPER • PLASTICS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 15452
Ship Date 28Oct16 at 13:14 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-982518- 6 Your PO # 34078

ALUMINUM ROUND BAR 6061-T6511
1.250" DIA X 144.0000"

Heat Number
201613086

Tag No
584312

Quantity
12 FT

PCS
1

Wt LBS
17

TOTAL: Tags 6 PCS 11 LBS 208

Heat Number
100D
201613086
201617588
423608-1
596952
Z00108143

*** Chemical Analysis ***

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 2 BDLS 228 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
***** TEL. 800-926-2600 *****

Page: 2Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 15452
Ship Date 28Oct16 at 13:14 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00
SERA AJOUTEE A CHAQUE COMMANDE.***
***POUR VOS BESOINS D'ACIER INOXYDABLE,
CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 3 Last

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

THYSSENKRUPP MATERIALS NA

STAINLESS STEEL ROUND BAR 303 STAINLESS
250" DIA X 144.0000"
PART NO

PO/Rel 34078

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-015452-001

28Oct16
Pg 1/1



North American Stainless Canada Inc.
740 Imperial Road North
Quebec, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Cheney, KY 41045-9615
(502) 347-6000

Certificate: 216009 3 Mail To:

Customer: 007206 001 THYSSENKRUPP MATERIALS
CONCORD, ON L4K5C6

Ship To:

THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 9/07/2016 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: PEC277672

NAS Order: IN 0236677 01

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30300, ASTM A583/12 EN 10204 3.1, ASTM A484/15
AMS 5640V TYPE 1, Q&S-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/ REQUIREMENTS OF DPMR 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

and 16/11/13

Product Id	Skld #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BI1735 6		.7500		780	144.00	1	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# E2323
Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
180D	US	.0328	.1455	17.1285	.3270	1.8445	.3050	.0345	8.6060	.0275

S %	GI %
.3108	.5520

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BI1735 6	R L	230.0	81.18	104.43	39.68	26.52

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy
of the test methods used, the material meets the specifications stated. These results relate only to the items
tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

9/07/2016

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511
.500" X 12.00" X 144.0000"
PART NO.

PO/Rel 34078

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-015452-002

28Oct16

Signed by: 

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-277878-8		CUSTOMER PART NUMBER: W61/STK		PRODUCT DESCRIPTION: .500 X 12.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 6016663	LINE ITEM: 008	SHIP DATE: 09/23/2016	KAISER LOT NUMBER: Z00108143	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1524.000 LB	QUANTITY: 18.000 PCS	B/L NUMBER: 616941	DIAM/DAF/THKNS: .500	WIDTH: 12.000	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00108143	0001	0001	43.7	39.7	12.0	RE 92	N/A	N/A
Z00108143	0001	0002	43.7	39.9	12.6	RE 91	N/A	N/A
Z00108143	0001	0003	44.0	40.0	11.8	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
106522	.60	.25	.21	.09	.85	.08	.05	.02	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/BA UNS#A96C61 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00251948

Kaiser Order Number: 6016663

Line Item: 008

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.125" x .750" X 240.0000"

PART NO.

PO/Rel 34078

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-015452-003

28Oct16

Signed by: 

Pg 1/1

CAN ART

ALUMINUM EXTRUSION INC.

Material Test Report

Manifest: **307820**

Ship To: ThyssenKrupp Materials NA

2821 Langstaff Road

Concord, ON L4K 5C6

Ticket:

5473041 : 5473042

Our Order: **423608 - 1**

Cust P.O.: 274331

Die: ES05485

Part: 05485-000-240

Alloy Temper: **6061 T6511**

Description: **.125 x .750**

Print Date: 4/25/16

Chemical Composition Range

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
6061										
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
421927	3B2196	C11	4/20/16	39.05	35.86	8.7

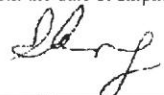
Applicable Specifications: **ASTMB221-14** **AMS-QQ-A200/8**

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Siddharth Desai - Tensile Testing

Authorized:


Evan Eng, Quality Assurance Manager

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
N250" x 1.50" X 144,0000"
PART NO.

PO/Rel 34078

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-015452-004

28Oct16
Pg 1/1



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
274633	6

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 1,058 lbs 40 pcs

MANIFEST NUMBER 310817
CUSTOMER PO PEC-278189
CUSTOMER PART NUMBER RB0131
DATE OF SHIPMENT 10/13/2016
SALESPERSON D. Schroeder (Canada)

CERTIFICATION
ASTM-B221-14 StencilCont
SPECIFICATION
AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DfARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201617588	10/13/16	min 46.80 max 46.90	min 42.80 max 42.90	min 16.35 max 18.40

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
1K161006D	201617588	6061	0.72	0.37	0.31	0.10	0.90	0.10	0.03	0.03	97.43	0.05	0.15
													United States of America

SCM products are melted and extruded in the USA

Print Date: 10/13/2016

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.375" DIA X 144.0000"

PART NO.

PO/Rel 34078

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-015452-005

28Oct16

Signed by: 

Pg 1/1



LB ALUMINIUM BERHAD
(138535-V)

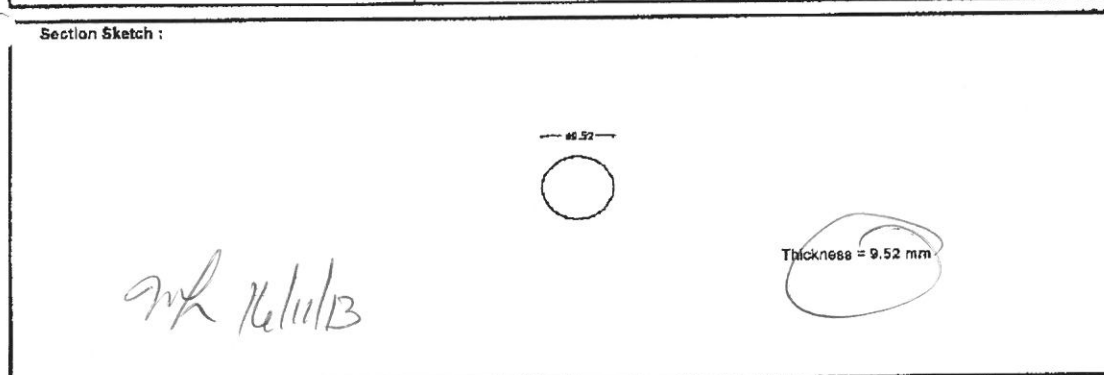


ALUMINIUM EXTRUSION

TEST CERTIFICATE

CUSTOMER: THYSSENKRUPP MATERIALS NA	SECTION NO.: PE01683MF03660	DATE: Mar-03-2016
SALES ORDER NO.: 1619145	WORK ORDER: 596952	ALLOY: 6061-T6511
PRESS NO.: 1101	EXTRUSION DATE: Feb-26-2016	CERTIFICATE NO.: MCERT1602309
CUSTOMER PO NO.: PEC-272700		

Section Sketch:



CHEMICAL COMPOSITION										
Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Analysis Ref.
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	Remainder	79314
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15		Feb-20-2016
Actual	0.719	0.200	0.279	0.042	1.049	0.067	0.025	0.011		

MECHANICAL PROPERTIES (Result shown is tested by LBALUM)			
	Tensile Strength N/mm ²	Yield Stress N/mm ²	Elongation (%)
Standard	260	240	6
Result	295.71	265.06	16.76

Compliance with ASTM B221M-07

We hereby certify that the material covered by this report has been verified or tested according to the solid standard sampling method or the requirements of any specifications or requirements described herein, and that sample representative of the material met the composition limits and had the mechanical properties shown. Also, note that mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds are used in the manufacture of our extrusions. This certificate conforms to 3.1, EN 10204.

** This certificate of Analysis has been produced electronically and is valid without signature **

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.
Tel: 603-8723 8822 (15 Lines) Fax: 603-8723 3191 (General), 8723 7272 (Sales), 8727 1218 (Export)
Enquiry@lbalum.com.my www.lbalum.com

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
1.250" DIA X 144.0000"
PART NO.

PO/Rel 34078
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

BL PEC-015452-006

28Oct16
Pg 1/1



Service Center Metals
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Can Do.

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 2,008 lbs 116 pcs

MANIFEST NUMBER 303998
CUSTOMER PO PEC-276955
CUSTOMER PART NUMBER RD0008
DATE OF SHIPMENT 8/10/2016
SALESPERSON D. Schroeder (Canada)
ALLOY/TEMPER 6061-T6511
DESCRIPTION Lightning Rod Title 1.250 + .005/- .004

CERTIFICATION
ASTM-B221-14 Stencil Cont
SPECIFICATION
AMS-QQA-200/8 Rev-A

OUR ORDER NUMBER	ITEM
269759	2

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	6 201613086	8/3/16	min 48.70 max 49.30	min 45.90 max 46.70	min 16.85 max 18.05

onf 16/11/13

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Others	Melt Source:
07221602	201613086	6061	0.76	0.38	0.32	0.10	0.91	0.09	0.08	0.02	97.34	0.05	0.15		United States of America

SCM extrusions are manufactured in the USA.

Print Date: 8/10/2016

Calvin L. Wiggins, Director of Quality & Technical Services

Rev 9/23/11 - UMS

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B.75DX.125

PO / BATCH NO.: 34078/135987

DATE: 11/11/03

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .125

QUANTITY RECEIVED: 60'

THICKNESS RECEIVED: .125

QUANTITY INSPECTED: 60'

SHEET SIZE ORDERED: _____

QUANTITY REJECTED: _____

SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
CORROSION	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<u>6061 T6</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<u>.125</u>
PHOTO REQUIRED	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<u>HEAT# 423608-1</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<u>M6061 T6 B.75DX.125</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<u>135987</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>14</u> <u>030</u> DATE: <u>11/11/03</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303 R. 750
 DATE: 11/6/13

PO / BATCH NO.: 34078/135987

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 48'
 QUANTITY INSPECTED: 48'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .750
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	303
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	.750
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	ASTM A582
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HEAT # 100D
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	M303 R. 750
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	M135 987
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>[Signature]</u>		SIGNED OFF BY: _____	
DATE: <u>11/6/13</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6DL1T6 B1.500X1.250 PO / BATCH NO.: 34078/135987
 DATE: 11/11/13

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	(N)	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	<u>1.6061T6</u>
CORRECT THICKNESS	(Y)	N	<u>1.250</u>
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	<u>AMS-QQA-200/8</u>
CORRECT REF # TO LINK CERT	(Y)	N	<u>HEAT# 201617588</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	<u>M6DL1T6 B1.500X1.250</u>
CORRECT M# ON THE MATERIAL	(Y)	N	<u>M135987</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>ML</u>		SIGNED OFF BY: _____	
DATE: <u>11/11/13</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 R.375

PO / BATCH NO.: 34078/135987

DATE: 11/11/13

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .385

QUANTITY RECEIVED: 12

THICKNESS RECEIVED: .380

QUANTITY INSPECTED: 12

SHEET SIZE ORDERED: _____

QUANTITY REJECTED: _____

SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	<u>M6061T6</u>
CORRECT THICKNESS	(Y)	N	<u>.380</u>
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	(Y)	N	<u>HEAT # 596952</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	<u>M6061T6 R.375</u>
CORRECT M# ON THE MATERIAL	(Y)	N	<u>14135987</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	SIGNED OFF BY: _____
DATE: <u>11/11/13</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 R1.250
 DATE: 11/11/13

PO / BATCH NO.: 34078/135987

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	<u>M6061T6</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	<u>1.250</u>
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	<u>ASTM-B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>HEAT # 201613086</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	<u>M6061T6 R1.250</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	<u>M135987</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	SIGNED OFF BY: _____
DATE: <u>11/11/13</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4606T6B.500x12.00

PO / BATCH NO.: P034073/M135937

DATE: 11-11-14

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .500" - .435"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	
CORRECT REF # TO LINK CERT	(Y)	N	AMS-QQ-A-200
CORRECT MATERIAL IDENTIFICATION	(Y)	N	200109143
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>11-11-14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34078**

Purchase Order Date 10/27/2016

PO Print Date 10/27/2016

Page Number 1 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

OCT 27 2016
E-MAILED

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M303R0.750	303 Round Bar 0.750	11/2/2016 Yes 11/2/2016	48.00 f	\$3.79	\$182.11

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$182.11

2	M6061T6B0.500X12.000	6061-T6 Bar .500 x 12.00	11/2/2016 Yes 11/2/2016	12.00 f	\$16.29	\$195.50
---	----------------------	--------------------------	-------------------------------	------------	---------	----------

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$195.50

PO Instructions: QUOTE NO PEC ST-981013

Note:

10/27/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34078**

Purchase Order Date 10/27/2016

PO Print Date 10/27/2016

Page Number 2 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone

Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

3	M6061T6B00750X00.125	6061-T6 Bar .750 x .125	11/2/2016 Yes 11/2/2016	60.00 f	\$1.05	\$63.00
---	----------------------	-------------------------	-------------------------------	------------	--------	---------

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$63.00

4	M6061T6B1.500X01.250	6061-T6 Bar 1.50 x 1.25	11/2/2016 Yes 11/2/2016	12.00 f	\$4.98	\$59.80
---	----------------------	-------------------------	-------------------------------	------------	--------	---------

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$59.80

5	M6061T6R0.375	6061-T6 Round Bar .375"	11/2/2016 Yes 11/2/2016	12.00 f	\$4.17	\$50.00
---	---------------	-------------------------	-------------------------------	------------	--------	---------

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

PO Instructions: QUOTE NO PEC ST-981013

Note:

10/27/2016

20161031



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34078**

Purchase Order Date 10/27/2016

PO Print Date 10/27/2016

Page Number 3 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA – (Free Carrier)

6	M6061T6R1.250	6061-T6 Round Bar 1.250	11/2/2016 Yes 11/2/2016	12.00 f	Line Total:	\$50.00	\$50.00
---	---------------	-------------------------	-------------------------------	------------	-------------	---------	---------

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

7	71401-45	PROCUREMENT QUALITY CLAUSES	11/2/2016 No 11/2/2016	1.00	Line Total:	\$0.00	\$0.00
---	----------	--------------------------------	------------------------------	------	-------------	--------	--------

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

SEP 16 10-31

Line Total: \$0.00

PO Instructions: QUOTE NO PEC ST-981013

Note:

10/27/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34078**

Purchase Order Date 10/27/2016

PO Print Date 10/27/2016

Page Number 4 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

PO Total: \$600.41

PO Instructions: QUOTE NO PEC ST-981013

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 10/27/2016